| L Number | Hits   | Search Text                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DB                     | Time stamp        |
|----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------|
| 1        | 483    | sputtering same (inline in-line)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | USPAT                  | 2003/03/11 08:22  |
| 2        | 79     | sputtering same (inline in-line) same (conventional well-known (well adj known))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | USPAT                  | 2003/03/11 08:51  |
| 3        | 3      | spf-530h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | USPAT                  | 2003/03/11 08:51  |
| 4 .      | 0      | spf-530h same (inline in-line)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | USPAT                  | 2003/03/11 09:18  |
| 5        | 72     | (crystal near size) same (sputtering)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | USPAT                  | 2003/03/11 09:18  |
| ] -      | 2      | jp-08225936-\$.did.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | USPAT;                 | 2001/08/15 16:07  |
|          |        | )p 00223330 \$. u.u.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | US-PGPUB;<br>EPO; JPO; |                   |
| _        | 13553  | jp-08225936-\$.did.MITSUI-MASARU YAMAGATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DERWENT<br>USPAT;      | 2001/08/15 16:14  |
|          |        | YAMAGATA-H YAMAGATA-HARUKI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | US-PGPUB;              | , .               |
|          |        | YAMAGATA-HARUYOSHI USHIDA USHIDA-M<br>USHIDA-MASAO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | EPO; JPO;<br>DERWENT   |                   |
| i _      | 13553  | jp-08225936-\$.did.MITSUI-MASARU YAMAGATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | USPAT;                 | 2001/08/15 16:15  |
|          | -5555  | YAMAGATA-H YAMAGATA-HARUKI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | US-PGPUB;              | , ,               |
|          |        | YAMAGATA-HARUYOSHI USHIDA USHIDA-M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | EPO; JPO;              |                   |
|          |        | USHIDA-MASAO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DERWENT                |                   |
| -        | 13551  | MITSUI-MASARU YAMAGATA YAMAGATA-H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | USPAT;                 | 2003/03/10 08:49  |
|          |        | YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | US-PGPUB;              |                   |
|          |        | USHIDA-M USHIDA-MASAO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EPO; JPO;              |                   |
|          | 4      | <br>  ((MITSUI-MASARU YAMAGATA YAMAGATA-H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DERWENT<br>USPAT;      | 2003/03/05 13:08  |
| _        | 4      | YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | US-PGPUB;              |                   |
|          |        | USHIDA-M USHIDA-MASAO ) and (photomask adj                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EPO; JPO;              |                   |
|          |        | blank)) and (substrate support) and (helium "He")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DERWENT                |                   |
| -        | 25     | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | USPAT;                 | 2003/03/05 13:06  |
| 1        |        | YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | US-PGPUB;              |                   |
| 1        |        | USHIDA-M USHIDA-MASAO ) and (photomask adj                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EPO; JPO;              |                   |
|          |        | blank)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DERWENT                |                   |
| -        | 22     | (photomask adj blank) and (substrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | USPAT;                 | 2002/03/28 15:17  |
|          |        | support) and (helium "He")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | US-PGPUB;              |                   |
|          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EPO; JPO;<br>DERWENT   |                   |
| İ _      | 603    | (photomask blank phototool) and (substrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | USPAT;                 | 2001/08/16 11:00  |
|          |        | support) and (helium "He") and (sputter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | US-PGPUB;              |                   |
|          |        | sputtering sputtered)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EPO; JPO;              |                   |
|          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DERWENT                | /                 |
| -        | 63     | ((photomask blank phototool) and (substrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | USPAT;                 | 2002/03/28 15:16  |
|          |        | support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | US-PGPUB;              |                   |
|          |        | and (vacuum adj chamber)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EPO; JPO;<br>DERWENT   |                   |
| _        | 3548   | (antireflective ARC) same (chromium adj                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | USPAT;                 | 2001/08/16 11:22  |
|          | 3340   | nitride Cr?N?)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | US-PGPUB;              |                   |
|          |        | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EPO; JPO;              |                   |
|          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DERWENT                |                   |
| -        | 744    | sputtering same (("ar" argon) and (helium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | USPAT;                 | .2001/08/16 11:57 |
|          |        | "He"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | US-PGPUB               | 2001/08/16 12:38  |
| -        | 60     | (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | USPAT;<br>US-PGPUB;    | 2001/08/16 12:38  |
|          |        | sputtering sputtered)) and (thin adj film)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EPO; JPO;              |                   |
|          |        | and (vacuum adj chamber)) not ((photomask                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DERWENT                |                   |
|          |        | adj blank) and (substrate support) and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2                      |                   |
|          |        | (helium "He"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                   |
| -        | 263296 | (430/5 430/322 430/320 428/\$ 427/\$).CCLS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | USPAT;                 | 2001/08/16 12:41  |
| !        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | US-PGPUB;              |                   |
|          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EPO; JPO;              | • .               |
|          | 139    | ((430/5 430/322 430/320 428/\$ 427/\$).CCLS.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DERWENT<br>USPAT;      | 2001/08/16 12:49  |
| -        | 139    | AND (PHOTOMASK MASK) AND ((SUBSTRATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | US-PGPUB;              | 2001,00,10 12.49  |
| -        |        | SUPPORT) NEAR TRANSPARENT) AND (HELIUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EPO; JPO;              |                   |
|          |        | "HE"?\$) AND (SPUTTER SPUTTERING SPUTTERED)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DERWENT                |                   |
| -        | 260869 | HE?\$(HEADLEY-J-L)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | USPAT;                 | 2001/08/16 12:48  |
| 1        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | US-PGPUB;              |                   |
|          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EPO; JPO;              |                   |
|          |        | // / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / | DERWENT                | 2001/00/16 12 12  |
| ] -      | 702    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | USPAT;                 | 2001/08/16 12:49  |
|          |        | AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (SPUTTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | US-PGPUB;<br>EPO; JPO; |                   |
|          |        | SPUTTERING SPUTTERED)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DERWENT                |                   |
| L        |        | DIGITALING DEGITAKADI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        | <u> </u>          |

| i   |     |                                                                                     |                      |                    |
|-----|-----|-------------------------------------------------------------------------------------|----------------------|--------------------|
| -   | 442 | ((430/5 430/322 430/320 428/\$ 427/\$).CCLS.)                                       | USPAT;               | 2001/08/16 12:52   |
|     |     | AND (PHOTOMASK MASK) AND ((SUBSTRATE                                                | US-PGPUB;            |                    |
|     |     | SUPPORT) NEAR TRANSPARENT) AND (HELIUM                                              | EPO; JPO;            |                    |
|     |     | "HE"?\$5) AND (SPUTTER SPUTTERING SPUTTERED)                                        | DERWENT              | 0000 (00 (00 00    |
| -   | 449 |                                                                                     | USPAT;               | 2001/08/16 12:58   |
|     |     | AND (PHOTOMASK MASK) AND ((SUBSTRATE                                                | US-PGPUB;            |                    |
| İ   |     | SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?\$3) AND (SPUTTER SPUTTERING SPUTTERED) | EPO; JPO;<br>DERWENT |                    |
|     | 80  | ((430/5 430/322 430/320 428/\$ 427/\$).CCLS.)                                       | USPAT;               | 2002/03/28 15:16   |
| -   | 80  | AND (PHOTOMASK MASK) AND ((SUBSTRATE                                                | US-PGPUB;            | 2002/03/20 13:10   |
|     |     | SUPPORT) NEAR TRANSPARENT) AND (HELIUM                                              | EPO; JPO;            |                    |
|     | :   | "HE"?) AND (SPUTTER SPUTTERING SPUTTERED)                                           | DERWENT              |                    |
| _   | 73  | (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.)                                      | USPAT:               | 2001/08/16 13:07   |
|     | , , | AND (PHOTOMASK MASK) AND ((SUBSTRATE                                                | US-PGPUB;            |                    |
|     |     | SUPPORT) NEAR TRANSPARENT) AND (HELIUM                                              | EPO; JPO;            |                    |
|     |     | "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) )                                         | DERWENT              |                    |
|     |     | NOT ((photomask adj blank) and (substrate                                           |                      |                    |
|     |     | support) and (helium "He"))                                                         |                      |                    |
| -   | 92  | ((430/5 430/322 430/320 428/\$ 427/\$).CCLS.)                                       | USPAT;               | 2003/03/05 13:05   |
|     |     | AND (PHOTOMASK MASK) AND ((SUBSTRATE                                                | US-PGPUB;            |                    |
|     |     | SUPPORT) NEAR TRANSPARENT) AND (HELIUM                                              | EPO; JPO;            |                    |
|     |     | "HE"?) AND (SPUTTER SPUTTERING SPUTTERED)                                           | DERWENT              | 0000 (00 (00 )     |
| -   | 78  | ((photomask blank phototool) and (substrate                                         | USPAT;               | 2003/03/05 13:05   |
|     |     | support) and (helium "He") and (sputter                                             | US-PGPUB;            |                    |
|     |     | sputtering sputtered)) and (thin adj film)                                          | EPO; JPO;            |                    |
|     |     | and (vacuum adj chamber)                                                            | DERWENT              | 2002/02/05 12:05   |
| -   | 30  | l ' <del>L</del>                                                                    | USPAT;               | 2003/03/05 13:05   |
|     |     | support) and (helium "He")                                                          | US-PGPUB;            |                    |
| †   |     |                                                                                     | EPO; JPO; DERWENT    |                    |
|     | 1   | ep-1022614-\$.did.                                                                  | USPAT;               | 2002/03/28 15:25   |
| _   | _   | ep-1022014-9.uiu.<br>                                                               | US-PGPUB;            | 2002/03/20 13:23   |
|     |     |                                                                                     | EPO; JPO;            |                    |
|     |     |                                                                                     | DERWENT              |                    |
| _   | 1   | ("5830332").PN.                                                                     | USPAT                | 2002/03/28 15:26   |
| _   | 16  | ("3840451"   "4417946"   "4486286"                                                  | USPAT                | 2002/03/28 15:26   |
|     |     | "4529475"   "4551216"   "4620898"                                                   |                      |                    |
|     |     | "4624736"   "4684436"   "4822466"                                                   |                      |                    |
|     |     | "4851097"   "4913789"   "4973345"                                                   |                      |                    |
|     |     | "5045165"   "5073241"   "5122249"                                                   |                      |                    |
|     |     | "5429730").PN.                                                                      |                      |                    |
| -   |     | ("4720442").PN.                                                                     | USPAT                | 2002/03/28 15:36   |
| -   | 5   |                                                                                     | USPAT                | 2002/03/28 15:43   |
|     | _   | "4530891"   "4563407").PN.                                                          | поращ                | 2002/02/20 15:51   |
| -   | 5   | ("4363846"   "4374912"   "4497878"                                                  | USPAT                | 2002/03/28 15:51   |
| _   | 13  | "4530891"   "4563407").PN.<br>  4720442.URPN.                                       | USPAT                | 2002/03/28 15:52   |
| -   | 37  | l                                                                                   | USPAT;               | 2002/03/28 15:32   |
|     | 3/  | 427/\$).CCLS.) AND (PHOTOMASK MASK) AND                                             | US-PGPUB;            | 2002, 05, 20 10.19 |
|     |     | ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND                                          | EPO; JPO;            |                    |
|     |     | (HELIUM "HE"?) AND (SPUTTER SPUTTERING                                              | DERWENT              |                    |
|     |     | SPUTTERED) ) (((photomask blank phototool)                                          |                      |                    |
|     |     | and (substrate support) and (helium "He")                                           | 1                    |                    |
|     |     | and (sputter sputtering sputtered)) and                                             |                      |                    |
|     |     | (thin adj film) and (vacuum adj chamber) )                                          |                      |                    |
|     |     | ((photomask adj blank) and (substrate                                               |                      |                    |
|     |     | support) and (helium "He") )) and                                                   | i                    |                    |
|     |     | @pd>=20010731                                                                       |                      |                    |
| -   | 331 | (sputtering) same (helium "He") same                                                | USPAT;               | 2002/03/28 16:20   |
|     |     | (nitrogen "N2" "N.sub.2")                                                           | US-PGPUB;            |                    |
|     |     |                                                                                     | EPO; JPO;            |                    |
|     |     | //                                                                                  | DERWENT              | 2002/02/05 13 05   |
| -   | 13  | ((sputtering) same (helium "He") same                                               | USPAT;               | 2003/03/05 13:05   |
|     | 1   | (nitrogen "N2" "N.sub.2")) and (blank                                               | US-PGPUB;            |                    |
|     |     | photomask adj blank photoblank)                                                     | EPO; JPO; DERWENT    |                    |
| I _ | 626 | <br>  ("He" Helium) same (chromium)                                                 | USPAT;               | 2002/03/28 16:35   |
| -   | 020 | / He Hettam/ Same (CHTOMITAM)                                                       | US-PGPUB;            | 2002, 03, 20 10.33 |
|     | 1   |                                                                                     | EPO; JPO;            |                    |
|     |     |                                                                                     | DERWENT              |                    |
| l   | 1   |                                                                                     |                      | <del></del>        |

| 1 |       |                                                                                                                                                                               |                                             |                  |
|---|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------|
| - | 28    | (("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)                                                                                                    | USPAT;<br>US-PGPUB;                         | 2003/03/05 13:05 |
|   | 3     | gb-2325473-\$.did. or ep-605814-\$.did.                                                                                                                                       | EPO; JPO;<br>DERWENT<br>USPAT;              | 2003/03/05 12:12 |
|   | 3     | gp-2323473-7.did. Of ep 003014 7.did.                                                                                                                                         | US-PGPUB;<br>EPO; JPO;                      | 2003,03,03 12.12 |
| - | 93    |                                                                                                                                                                               | DERWENT<br>USPAT;                           | 2003/03/05 13:05 |
|   |       | support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber)                                                                   | US-PGPUB;<br>EPO; JPO;<br>DERWENT           |                  |
| _ | 118   | ((430/5 430/322 430/320 428/\$ 427/\$).CCLS.)<br>AND (PHOTOMASK MASK) AND ((SUBSTRATE                                                                                         | USPAT;<br>US-PGPUB;                         | 2003/03/05 13:06 |
|   | 32    | SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) (("He" Helium) same (chromium)) and (blank                                                   | EPO; JPO;<br>DERWENT<br>USPAT;              | 2003/03/05 13:06 |
|   |       | photomask adj blank photoblank)                                                                                                                                               | US-PGPUB;<br>EPO; JPO;                      |                  |
| _ | 16    | (nitrogen "N2" "N.sub.2")) and (blank                                                                                                                                         | DERWENT<br>USPAT;<br>US-PGPUB;              | 2003/03/05 13:07 |
| _ | 47    | photomask adj blank photoblank) (photomask adj blank) and (substrate                                                                                                          | EPO; JPO;<br>DERWENT<br>USPAT;              | 2003/03/05 13:07 |
|   |       | support) and (helium "He")                                                                                                                                                    | US-PGPUB;<br>EPO; JPO;<br>DERWENT           |                  |
| - | 8     | ((MITSUI-MASARU YAMAGATA YAMAGATA-H<br>YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA<br>USHIDA-M USHIDA-MASAO ) and (photomask adj<br>blank)) and (substrate support) and (helium | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/03/05 13:07 |
| - | 31    | "He") (MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank)                                          | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/03/05 13:07 |
| - | 26299 |                                                                                                                                                                               | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/03/05 13:09 |
| - | 9     | (((photomask blank phototool) and (substrate                                                                                                                                  | USPAT;<br>US-PGPUB;                         | 2003/03/05 13:46 |
|   |       | support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber) ) (((430/5 430/322                                                | EPO; JPO;<br>DERWENT                        |                  |
|   |       | 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER                                                 |                                             |                  |
|   |       | SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj                                                                                             |                                             |                  |
|   |       | blank photoblank) ) (((sputtering) same<br>(helium "He") same (nitrogen "N2"<br>"N.sub.2")) and (blank photomask adj blank                                                    |                                             |                  |
|   |       | photoblank) ) ((photomask adj blank) and<br>(substrate support) and (helium "He") )<br>(((MITSUI-MASARU YAMAGATA YAMAGATA-H                                                   |                                             |                  |
|   |       | YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA<br>USHIDA-M USHIDA-MASAO ) and (photomask adj                                                                                       |                                             |                  |
|   |       | blank)) and (substrate support) and (helium<br>"He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-H<br>YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA                                       |                                             |                  |
|   |       | USHIDA-M USHIDA-MASAO ) and (photomask adj<br>blank) )) and (tensile adj stress)                                                                                              |                                             |                  |

| • |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                             |                                      |
|---|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------|
|   | 56 | ((gb-2325473-\$.did. or ep-605814-\$.did.) (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber) ) ((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank) and (substrate support) USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank) and (substrate support) ushida USHIDA-M USHIDA-MASAO) and (photomask adj blank) and (substrate adj rate) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/03/05 13:46                     |
|   | 51 | USHIDA-M USHIDA-MASAO ) and (photomask adj<br>blank) )) and (deposition adj rate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/03/06 10:33                     |
| - | 0  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | USPAT<br>USPAT                              | 2003/03/06 10:04<br>2003/03/06 10:05 |
|   | 0  | 605814.URPN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | USPAI                                       | 2003/03/00 IO:05                     |

| -   | 4      | (("4663183") or ("4728529")).PN.             | USPAT;    | 2003/03/06 10:21 |
|-----|--------|----------------------------------------------|-----------|------------------|
|     |        |                                              | US-PGPUB; |                  |
|     |        |                                              | EPO; JPO; |                  |
|     |        |                                              | DERWENT   |                  |
| -   | 252    | flatness adj degree                          | USPAT;    | 2003/03/06 10:22 |
|     |        |                                              | US-PGPUB; |                  |
|     | 1      |                                              | EPO; JPO; |                  |
|     |        |                                              | DERWENT   |                  |
| -   | 4975   | (blank photomask mask) and (thin adj film)   | USPAT;    | 2003/03/06 12:47 |
|     |        | and (substrate support) and (helium "He")    | US-PGPUB; |                  |
|     |        |                                              | EPO; JPO; |                  |
|     |        |                                              | DERWENT   |                  |
| -   | 3      | ((blank photomask mask) and (thin adj film)  | USPAT;    | 2003/03/06 10:23 |
|     |        | and (substrate support) and (helium "He"))   | US-PGPUB; |                  |
|     | İ      | and (flatness adj degree)                    | EPO; JPO; |                  |
|     |        |                                              | DERWENT   |                  |
| -   | 154    |                                              | USPAT;    | 2003/03/06 10:27 |
|     |        | and (substrate support) and (helium "He"))   | US-PGPUB; |                  |
|     |        | and (tensile near stress)                    | EPO; JPO; |                  |
|     |        |                                              | DERWENT   |                  |
| . – | 571552 | (transition near metal) (chromium "Cr" )     | USPAT;    | 2003/03/06 10:32 |
|     |        |                                              | US-PGPUB; |                  |
|     |        |                                              | EPO; JPO; |                  |
|     | 1      |                                              | DERWENT   |                  |
| -   | 60     | (((blank photomask mask) and (thin adj film) | USPAT;    | 2003/03/06 10:33 |
|     |        | and (substrate support) and (helium "He"))   | US-PGPUB; |                  |
|     |        | and (tensile near stress) ) and ((transition | EPO; JPO; |                  |
|     |        | near metal) (chromium "Cr" ))                | DERWENT   |                  |

| • |           |                                                                                     |           |                  |
|---|-----------|-------------------------------------------------------------------------------------|-----------|------------------|
| - | 52        | (((gb-2325473-\$.did. or ep-605814-\$.did.)                                         | USPAT;    | 2003/03/06 10:35 |
|   |           | (((photomask blank phototool) and (substrate                                        | US-PGPUB; |                  |
|   |           | support) and (helium "He") and (sputter                                             | EPO; JPO; |                  |
|   |           | sputtering sputtered)) and (thin adj film)                                          | DERWENT   |                  |
|   |           | and (vacuum adj chamber) ) (((430/5 430/322                                         |           |                  |
|   |           | 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK                                        |           |                  |
|   |           | MASK) AND ((SUBSTRATE SUPPORT) NEAR                                                 |           |                  |
|   |           | TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER                                        |           |                  |
|   |           | SPUTTERING SPUTTERED) ) ((("He" Helium)                                             |           |                  |
|   |           | same (chromium)) and (blank photomask adj                                           |           |                  |
|   | İ         | blank photoblank) ) (((sputtering) same                                             |           |                  |
|   |           | (helium "He") same (nitrogen "N2"                                                   |           |                  |
|   |           | "N.sub.2")) and (blank photomask adj blank                                          |           |                  |
|   |           | photoblank) ) ((photomask adj blank) and                                            |           |                  |
|   |           | (substrate support) and (helium "He") )                                             |           |                  |
|   |           | (((MITSUI-MASARU YAMAGATA YAMAGATA-H                                                |           |                  |
|   |           | YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA                                           |           |                  |
|   |           | USHIDA-M USHIDA-MASAO ) and (photomask adj                                          |           |                  |
|   |           | blank)) and (substrate support) and (helium                                         |           |                  |
|   |           | "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-H                                         |           |                  |
|   |           | YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA                                           |           |                  |
|   |           | USHIDA-M USHIDA-MASAO ) and (photomask adj                                          |           |                  |
|   |           | blank) )) and (deposition adj rate)) not                                            |           |                  |
|   |           | (((gb-2325473-\$.did. or ep-605814-\$.did.)                                         |           | 1                |
|   |           | (((photomask blank phototool) and (substrate                                        |           |                  |
|   |           | support) and (helium "He") and (sputter                                             |           |                  |
|   |           | sputtering sputtered)) and (thin adj film)                                          |           |                  |
|   |           | and (vacuum adj chamber) ) (((430/5 430/322                                         |           |                  |
|   |           | 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK                                        |           |                  |
|   |           | MASK) AND ((SUBSTRATE SUPPORT) NEAR                                                 |           |                  |
|   |           | TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER                                        |           |                  |
|   |           | SPUTTERING SPUTTERED) ) ((("He" Helium)                                             |           |                  |
|   |           | same (chromium)) and (blank photomask adj                                           |           |                  |
|   | ļ         | blank photoblank) ) (((sputtering) same                                             |           |                  |
|   |           | (helium "He") same (nitrogen "N2"                                                   |           |                  |
|   |           | "N.sub.2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank) and |           |                  |
|   |           | (substrate support) and (helium "He")                                               |           |                  |
|   |           | (((MITSUI-MASARU YAMAGATA YAMAGATA-H                                                |           |                  |
|   |           | YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA                                           |           |                  |
|   |           | USHIDA-M USHIDA-MASAO ) and (photomask adj                                          |           |                  |
|   | +         | blank)) and (substrate support) and (helium                                         |           |                  |
|   |           | "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-H                                         |           |                  |
|   |           | YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA                                           |           |                  |
|   |           | USHIDA-M USHIDA-MASAO ) and (photomask adj                                          |           |                  |
|   |           | blank) )) and (tensile adj stress))                                                 |           |                  |
| L | <u>.l</u> |                                                                                     | l         | ·                |

| ((((blank photomask mask) and (thin adj (film) and (substrate support) and (theilum "He")) and (tensile near stress) and ((transition near metal) (chromium (rc"))) not ((("4663183") or ("472852")).PN.) (((blank photomask mask) and (thin adj film) and (substrate support) and (helium "He")) and (flatness adj degree) (helium "He")) and (flatness adj degree) (helium "He") and (substrate support) and (helium "He") and (sputter support) and (helium "He") and (sputter support) and (helium "He") and (sputter support) and (helium "He") and (sputter support) and (helium "He") and (sputter support) and (helium "He") ((10) 426/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND (SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (SHELIUM "HE") AND (SPUTTER SPUTTEREN) SUPTTERING SPUTTERING SPU   | • |        |                                              |           |                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------|----------------------------------------------|-----------|---------------------------------------|
| ((cransition near metal) (chromium "Cc"))) not ((("4663183") or ("4728529")).PN.) (((blank photomask mask) and (thin adj film) and (substrate support) and (helium "He")) and (flatness adj degree)) ((((gb-2325473-5.did. or ep-605814-5.did.) ((((gb-2325473-5.did.) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber)) (((430/5 430/322 430/320 428/5 427/5).CCLLS.) AND (HOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSFARENT) AND (HELIUM "He") AND (SPUTTER SPUTTERING SPUTTERED) ) (("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) ((sputtering) same ("N. sub.2") and (blank photomask adj blank) photoblank)) ((photomask adj blank) motoblank)) ((sputtering) same ("N. sub.2") and (blank photomask adj blank) substrate support) and (helium "He")) (((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUNIY YAMAGATA HARUNOSH USHIDA USHIDA-M USHIDA-MASARO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUNIY YAMAGATA HARUNOSH USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (deposition adj rate) not (((gb-2325473-S.did. or ep-605814-S.did.) ((((gb-2325473-S.did. or ep-605814-S.did.) (((gb-2325473-S.did. or     | - | 60     | ((((blank photomask mask) and (thin adj      | USPAT;    | 2003/03/06 12:23                      |
| ((transition near metal) (chromium "Cr"))  not ((('4661313") or "4728529"), PN.)  (((blank photomask mask) and (thin adj film) and (substrate support) and (helium "He")) and (filatness adj degree))  ((((gb-0232547-s.did. or ep-605814-s.did.)  (((photomask blank phototool) and (substrate support) and (helium "He") and (substrate support) and (helium "He") and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (blank photomask MASK) AND (SUSSTRATE SUPPORT) NEAR FRANSPARENTI AND (HELIUM "HE") AND (SPUTTER  SPUTTERINS SUPITERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) ((sputtering) same (helium "He") same (nitrogen "N2"  "N. sub. 2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank) and (substrate support) and (helium "He")) (((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-H USHIDA USHIDA-M USHIDA-MUSHIDA-MASARO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARO) and (photomask adj blank)) and (deposition adj rate) hot (((gb-2225473-S.did. or ep-605814-S.did.) (((ghotomask blank phototool) and (substrate support) and (helium "He") and (substrate support) and (helium "He") and (substrate support) and (helium "He") and (substrate support) and (helium "He") and (substrate support) and (helium "He") and (substrate support) and (helium "He") and (substrate support) and (helium "He") and (substrate support) and (helium "He") and (substrate support) and (helium "He") and (substrate support) and (helium "He") and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (substrate support) and (subs     |   |        | film) and (substrate support) and (helium    | US-PGPUB; |                                       |
| not ((("4663183") or ("472829"), PN.) (((blank photomask mask) and (thin adj film) and (substrate support) and (helium "he")) and (flatness adj degree)) ((((gb-2325473-5.did. or ep-605814-5.did.) ((((pbotomask blank phototool) and (substrate support) and (helium "he") and (substrate support) and (helium "he") and (substrate support) and (helium "he") and (substrate support) and (helium "he") and afj film) and (vacuum adj chamber) ) (((430/5 430/322 430/320 428/5 427/5).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENTI AND (HELIUM "He") a AND (SPUTTER SPUTTERING SPUTTERED) ) (("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He") same (nitrogen "N2" "N. sub.2")) and (blank photomask adj blank photoblank)) (((blank photomask adj blank) and (substrate support) and (helium "he")) (((MITSUL-MASARU YAMAGATA TAMAGATA-H YAMAGATA-HARUKI YAMAGATA TAMAGATA-H YAMAGATA-HARUKI YAMAGATA YAMAGATA-H YAMAGATA-SS.did. or ep-665814-S.did.) ((((photomask blank phototool) and (substrate support) and (helium "he") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber)) (((430/5 430/322 430/320 428/5 427/5).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE") AND (SPUTTER SPUTTERING SUTTERED)) ((("me" helium) same (chromium)) and (blank photomask adj blank) hand (substrate support) and (helium "He")) (("MITSUL-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA HARUYOSH USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUL-MASARO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUL-MASARO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((Sustrata Support) and (helium "He")) ((Sustrata Susport) and (helium "He")) ((Sustrata Susport) and (helium "He")) ((S       |   |        | "He")) and (tensile near stress) ) and       | EPO; JPO; |                                       |
| not ((("4663183") or ("472829"), PN.) (((blank photomask mask) and (thin adj film) and (substrate support) and (helium "he")) and (flatness adj degree)) ((((gb-2325473-5.did. or ep-605814-5.did.) ((((pbotomask blank phototool) and (substrate support) and (helium "he") and (substrate support) and (helium "he") and (substrate support) and (helium "he") and (substrate support) and (helium "he") and afj film) and (vacuum adj chamber) ) (((430/5 430/322 430/320 428/5 427/5).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENTI AND (HELIUM "He") a AND (SPUTTER SPUTTERING SPUTTERED) ) (("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He") same (nitrogen "N2" "N. sub.2")) and (blank photomask adj blank photoblank)) (((blank photomask adj blank) and (substrate support) and (helium "he")) (((MITSUL-MASARU YAMAGATA TAMAGATA-H YAMAGATA-HARUKI YAMAGATA TAMAGATA-H YAMAGATA-HARUKI YAMAGATA YAMAGATA-H YAMAGATA-SS.did. or ep-665814-S.did.) ((((photomask blank phototool) and (substrate support) and (helium "he") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber)) (((430/5 430/322 430/320 428/5 427/5).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE") AND (SPUTTER SPUTTERING SUTTERED)) ((("me" helium) same (chromium)) and (blank photomask adj blank) hand (substrate support) and (helium "He")) (("MITSUL-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA HARUYOSH USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUL-MASARO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUL-MASARO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((Sustrata Support) and (helium "He")) ((Sustrata Susport) and (helium "He")) ((Sustrata Susport) and (helium "He")) ((S       |   | 1      | ((transition near metal) (chromium "Cr" )))  | DERWENT   |                                       |
| (((blank photomask mask) and (thin adj film) and (substrate support) and (helium "He")) and (flatness adj degree)) ((((gb-2325473-S.did. or ep-605814-S.did.) (((photomask blank phototool) and (substrate support) and (helium "He") and (substrate support) and (helium "He") and (substrate sputtering sputtered)) and (thin adj film) and (vacuum adj chamber) ) (((30)5 430/322 430/320 428/S 427/S).CCLS.) AND (PHOTOMASK MASK) AND (SUBSTRATE SUPPORT) NEAR FRANSPARENTI AND (HELIUM "HE") AND (SPUTTER SPUTTERING SUPUTERING SUPPORT) NEAR TRANSPARENTI AND (HELIUM "HE") AND (SPUTTER SUPUTTERING SUPUTERING SUPUTERING SUPUTER SPUTTERING SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SUPUTER SU     |   | 1      |                                              |           |                                       |
| and (slubstrate support) and (helium "He")) and (flatness adj degree)) (((()pbctomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtering) and (thin adj film) and (vacuum adj chamber) ) (((430/5 430/322 430/322 430/320 42/5 427/5). CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE") AND (SPUTTER SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2"   "N.sub.2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUL-MASARU YAMAGATA-HARUVOSHI USHIDA USHIDA-MUSAGA) O and (photomask adj blank)) and (substrate support) and (helium "He") ) (((MITSUL-MASARU YAMAGATA-HARUVOSHI USHIDA USHIDA-MASAR) O and (photomask adj blank)) and (substrate support) and (helium "He")) (((()c)-2325473-5.did. or ep-605814-5.did.) ((()c)-2325473-5.did. or ep-605814-5.did.) (()c)-2325473-5.did. or ep-605814-5.did.) (()c)-2325473-5     |   |        |                                              |           |                                       |
| and (flatness adj degree))  ((((gh-218747-3-did.) or ep-605814-5.did.)  (((ghotomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber) ) (((a)05 430/322 430/320 428/5 427/\$).CCLS.) AND (PHOTOMASK MASK) AND (SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "He" 2) AND (SPUTTER SPUTTERNS SPUTTERNS SPUTTERNS ((sputtering) same (chromium)) and (blank photomask adj blank photoblank) ) ((sputtering) same (helium "He")) and (blank photomask adj blank photoblank) ) ((sputtering) same (helium "He")) and (blank photomask adj blank photoblank) ) (substrate support) and (helium "He"))  (((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank) and (substrate support) and (helium "He")) (((gh-218747-8.did.) or ep-605814-5.did.)  ((gh-218747-8.did. or ep-605814-5.did.) (((photomask blank photoblank)) and (deposition adj rate)) not (((gh-218747-8.did. or ep-605814-5.did.) (((photomask blank phototocl)) and (substrate support) and (helium "He") and (sputter sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputter    |   |        |                                              |           |                                       |
| ((((ghotomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sp     |   | į      |                                              |           |                                       |
| (((photomask blank phototool) and (sputter sputtering sputtered)) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber)) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND (SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "He" > ) AND (SPUTTER SPUTTERING SPUTTEREND) > (("He" Helium) same (chromium)) and (blank photomask adj blank photoblank) > ((sputtering) same (helium "He")) and (blank photomask adj blank photoblank) > ((foputtering) same (helium "He")) and (blank photomask adj blank photoblank) > ((foputtering) same (helium "He")) and (blank photomask adj blank photoblank) > ((foputtering) same (helium "He")) and (blank photomask adj blank) and (substrate support) and (helium "He") > (((MITSUI-MASAR) YAMAGATA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-HAWASARTA-   |   |        | , , ,                                        |           | 1                                     |
| support) and (helium "He") and (sputter sputtering sputtered) and (thin adj film) and (vacuum adj chamber) (((430/5 430/322 430/320 428/8 427/8).CCLS.) AND (PHOTOMASK MASK) AND ((SUSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE") AND (SPUTTER SPUTTERING SPUTTERING SPUTTERING) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He") same (nitrogen "N2" "N. sub.2")) and (blank photomask adj blank photoblank)) ((sputtering) same (substrate support) and (helium "He")) (((MITSUI-MASARU YAMAGATA HAYUNGHI USHIDA USHIDA-MASAO)) and (photomask adj blank) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-HAYUNGHI USHIDA USHIDA-MASAO)) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-HYAMAGATA-HYAMAGATA-HAYUNGHI USHIDA USHIDA-MASAO) and (photomask adj blank)) and (deposition adj rate)) not (((gb-2325473-\$.did. or ep-605814-\$.did.)) (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber)) (((430/5 430/322 430/320 428/5 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE") AND (SPUTTER SPUTTERING SPUTTERED)) (("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He")) (("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) ((sputtering) same (helium "He")) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA YAMAGATA HAYUNGHI USHIDA USHIDA-MUSHIDA-MASAO) and (photomask adj blank) and (substrate support) and (helium "He")) ((SPAT; US-PGUB; EPO, JPO; JPO; JPO; JPO; JPO; JPO; JPO; JPO;                                                                                                                                                                                                                                                                                            |   |        |                                              |           |                                       |
| sputtering sputtered)) and (thin adj film) and (vacuum adj chamber)) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND (SUSSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He") same (nitrogen "N2" "N. sub.2")) and (blank photomask adj blank photoblank)) ((photomask adj blank) and (substrate support) and (helium "He")) (((MITSUI-MASARU YAMAGATA YAMAGATA-HA YAMAGATA-HARUKI YAMAGATA TAHARUYOSHI USHIDA USHIDA-M USHIDA-MASAD) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA TAHARUYOSHI USHIDA USHIDA-M USHIDA-MASAD) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA TAHARUYOSHI USHIDA USHIDA-M USHIDA-MASAD) and (photomask adj blank))) and (deposition adj ratel) not (((gb-2325473-\$ did or cp-605914-\$ did ) (((ghotomask blank phototool) and (substrate support) and (helium "He") and (substrate support) and (helium "He") and (vacuum adj chamber)) (((430/5 430/322 430/320 428/5 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "He") AND (SPUTTER SPUTTERING SPUTTERED) ) (("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He") same (nitrogen "N2" "N. sub.2")) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He") same (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA TAMAGATA-H YAMAGATA-HARUKI YAMAGATA TAMAGATA-H YAMAGATA-HARUKI YAMAGATA TAMAGATA TAMAGATA-H YAMAGATA-HARUKI YAMAGATA TAMAGATA-H YAMAGATA-HARUKI YAMAGATA TAMAGATA TAMAGATA-H YAMAGATA-HARUKI |   |        |                                              |           |                                       |
| and (vacuum adj chamber) ) (((430/5 430/322 430/320 428/5 427/5).CCLS.) AND (PHOTOMASK MASK) AND ((SUSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "He"?) AND (SPUTTER SPUTTERINS SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA HARUKOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank) und (substrate support) and helium "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-HAYUAGATA-HAYUAGATA-HARUKI YAMAGATA-HARUKOSHI USHIDA USHIDA-MUSHIDA-MASAO) and (photomask adj blank) ) and (deposition adj rate)) not (((gb-2325473-5.did.) (((ghotomask) blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber) ) (((330/5 430/322 430/320 428/5 427/5).CCLS.) AND (PHOTOMASK MASK) AND (SUSTRATES SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE") AND (SPUTTER SPUTTERING SPUTTERED) ) (("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) ((substrate Support) near TRANSPARENT) AND (HELIUM "HE") AND (SPUTTER SPUTTERING SPUTTERED) ) (("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) ((substrate Support) same (helium "He") and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA YAMAGATA-HAYUAGATA YAMAGATA YAMAGATA-HAYUAGATA YAMAGATA-HAYUAGATA YAMAGATA-HAYUAGATA YAMAG     |   |        |                                              |           |                                       |
| ### ### ### ### ### ### ### ### ### ##                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |        |                                              |           |                                       |
| MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2") and (blank photomask adj blank photoblank)) ((photomask adj blank) and (substrate support) and (helium "He")) (((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (deposition adj rate)) not (((gb-2325473-\$.did. or ep-605814-\$.did.)) (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber)) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (KELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED)) (("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((photomask adj blank photoblank)) ((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank)) and (substrate support) and (helium "He") YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He") ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA TAMAGATA-H YAMAGATA-HARUKI YAMAGATA TAMAGATA-H YAMAGATA-HARUKI YAMAGATA TAMAGATA-H YAMAGATA-HARUKI YAMAGATA TAMAGATA T |   |        |                                              |           |                                       |
| TRANSPARENT) AND (HELLUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) (("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank)) ((photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA HARUYOSHI USHIDA USHIDA-M USHIDA-MASAN) ) and (photomask adj blank) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA HARUYOSHI USHIDA USHDA-M USHIDA-MASAN) ) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-MASAN) ) and (photomask adj blank)) and (deposition adj rate)) not (((gb-2325473-5.did. or ep-605814-5.did.) (((photomask blank photobol) and (substrate support) and (helium "He") and (sputter sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sput sputtering sput sput sput sput sput sput sput sput                                                                   |   |        | 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK |           |                                       |
| SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank)) ((photomask adj blank) and (substrate support) and (helium "He") (((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKIY YAMAGATA YAMAGATA-HARUKIY HAWAGATA HARUKOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-HARUKOSHI USHIDA USHIDA-HARUKIY YAMAGATA-HARUKOSHI USHIDA USHIDA-HARUKIY YAMAGATA-HARUKOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (deposition adj rate)) not (((gb-2325473-\$, did. or ep-605814-\$, did.)) (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber)) (((430/5 430/322 430/320 428/\$ 427/5).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRAMSPARENT) AND (HELIUM "HE") AND (SPUTTER SPUTTERING SPUTTERED)) ((("He" Helium) same (chromium)) and (blank photomask adj blank) hotoblank)) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank) photoblank)) ((photomask adj blank) and (substrate support) and (helium "He")) (((MITSUI-MASARU YAMAGATA YAMAGATA-HARUKI YAMAGATA-HARUKI USHIDA USHIDA-MUSHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-HARUKI YAMAGATA-HARUKSH USHIDA USHIDA-MUSHIDA-MASAO) and (photomask adj blank))) and (tensile adj stress)))  - 150556 (tensile adj stress) (warp warping flatness)                                                                                                                                                                                                                                                                                                                                                                                                       |   |        | MASK) AND ((SUBSTRATE SUPPORT) NEAR          |           |                                       |
| same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He") same (nitrogen "N2" "N. sub.2")) and (blank photomask adj blank photoblank)) ((photomask adj blank) and (substrate support) and (helium "He")) (((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-MAGATA HARUYOSHI USHIDA USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-MISHIDA-MISHIDA-MASAO) and (photomask adj blank)) and (deposition adj rate)) not (((gb-2325473-\$, did. or ep-605814-\$, did. )) (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering sputtering same (chromium) and (blank photomask adj blank photoblank) (((substrate support) and (substrate support) and (sub   |   |        |                                              |           |                                       |
| blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2"  "N. sub.2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA YAMAGATA-HAVUS YAMAGATA-HARVUS   |   |        | SPUTTERING SPUTTERED) ) ((("He" Helium)      | •         |                                       |
| blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2"  "N. sub.2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA YAMAGATA-HAVUS YAMAGATA-HARVUS   |   |        |                                              |           |                                       |
| (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank)) ((photomask adj blank) and (substrate support) and (helium "He")) (((MITSUI-MASARY YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUKOSH USHIDA USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUKOSH USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (deposition adj rate) not (((gb-2325473-\$.did. or ep-605814-\$.did.) (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERED) ) (("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He")) asme (informiam) and (blank photomask adj blank photoblank)) ((sputtering) same (helium "He")) asme (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank) (((sputtering) same (helium "He")) (((MITSUI-MASARU YAMAGATA-HARUKOSH USHIDA USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA-HARUKOSH USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA-HARUKOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (tensile adj stress))) (tensile adj stress))) (tensile adj stress))) (tensile adj stress)))                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |        |                                              |           |                                       |
| "N.sub.2")) and (blank photomask adj blank photoblank) ((photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA HARUKOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank) )) and (deposition adj rate)) not (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber) ) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) (("He" Helium) same (chromium) and (blank photomask adj blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA-HARUKOSHI USHIDA USHIDA-MASAO)) and (photomask adj blank)) and (substrate support) and (helium "He") ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUKOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He") (MITSUI-MASARU YAMAGATA YAMAGATA-HARUKOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (tensile adj stress))) (tensile adj stress))) (tensile adj stress)))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |        |                                              |           |                                       |
| photoblank) ) ((photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (deposition adj rate) not (((gb-2325473-\$.did. or ep-605814-\$.did.) (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber) ) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank)) ((photomask adj blank photoblank)) ((photomask adj blank photoblank)) ((photomask adj blank photoblank)) ((photomask adj blank photoblank) and (substrate support) and (helium "He")) (((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHDA-M USHDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((FILMENSINE AND AND AND AND AND AND AND AND AND AND                                                                                                                                                                                                                                                                                                                                                                                                    |   |        |                                              |           |                                       |
| ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank))) and (deposition adj rate)) not (((gb-2325473-5.did. or ep-605814-5.did.)) (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber)) (((430/5 430/322 430/320 428/5 427/5).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED)) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He") same (nitrogen "N2" "N. sub.2")) and (blank photomask adj blank photoblank)) (((photomask adj blank photoblank)) (((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) (((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank))) and (tensile adj stress))) (tensile adj stress) (Warp warping (FPC), JPO; DERMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   | !      |                                              | 1         |                                       |
| (((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (deposition adj rate)) not (((gb-2325473-5.did. or ep-605814-\$.did.) (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber)) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED)) (("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank)) ((photomask adj blank) photoblank)) ((photomask adj blank) photoblank)) ((photomask adj blank) photoblank)) ((mitsul-MASAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO)) and (photomask adj blank)) and (tensile adj stress))) (tensile adj stress) (warp warping flatness)  150556                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |        | ~                                            |           |                                       |
| YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank)) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank)) and (deposition adj rate)) not (((gb-2325473-5.did. or ep-665814-5.did.) (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber) ) (((430/5 430/322 430/320 428/8 427/8).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) (("He" Helium) same (chromium)) and (blank photomask adj blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2" "N. sub. 2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA YAMAGATA YAMAGATA-H AYAMAGATA-HARUKI YAMAGATA YAMAGATA YAMAGATA-H YAMAGATA-HARUKI  | ] | İ      |                                              |           | 1                                     |
| USHIDA-M USHIDA-MASAO ) and (photomask adj blank) and (substrate support) and (helium "He") ) (MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank) )) and (deposition adj rate)) not (((gb-2325473-\$.did. or ep-605814-\$.did.) (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber) ) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) (("#He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank)) ((photomask adj blank) and (substrate support) and (helium "He")) (((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA YAMAGATA HARUKI YAMAGATA-HARUKYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) (WITSUI-MASARU YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA YAMAGATA  |   |        |                                              |           |                                       |
| blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank))) and (deposition adj rate)) not (((gb-2325473-\$.did. or ep-605814-\$.did.) (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber)) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED)) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank)) ((photomask adj blank) and (substrate support) and (helium "He")) (((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (substrate USHIDA-M USHIDA-MASAO) and (photomask adj blank) USHIDA-MASAO) and (photomask adj blank)) and (tensile adj stress))) (tensile adj stress) (warp warping flatness)  150556                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   | ĺ      |                                              |           |                                       |
| "He") ) ((MITSUI-MASARU YAMAGATA - YAMAGATA-H YAMAGATA-HARUKI YAMAGATA - HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank) )) and (deposition adj rate) not (((gb-2325473-\$.did. or ep-605814-\$.did.) (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtered) and (thin adj film) and (vacuum adj chamber) ) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2" "N. sub.2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank) ) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank) )) and (tensile adj stress))) (tensile adj stress) (warp warping flatness)  150556    USPAT;   US-PGPUB;   EPO; JPO;   DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   | 1      | _                                            | İ         | 1                                     |
| YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank) )) and (deposition adj rate)) not (((gb-2325473-\$.did. or ep-605814-\$.did.) (((photomask blank phototoclo)) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber) ) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "He"?) AND (SPUTTER SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank photoblank) ) ((photomask adj blank photoblank) ) (((MITSUI-MASARU YAMAGATA-H YAMAGATA-HARUKI YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank) )) and (tensile adj stress))) (tensile adj stress) (warp warping flatness)  150556  (tensile adj stress) (warp warping flatness)  USPAT; US-PGFUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |        | <del></del>                                  |           |                                       |
| USHIDA-M USHIDA-MASAO ) and (photomask adj blank) )) and (deposition adj rate)) not (((gb-2325473-\$, did. or ep-605814-\$, did.)) (((photomask blank phototool)) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber) ) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank photoblank) ) (((MITSUI-MASARU YAMAGATA-HARVOSHI USHIDA USHIDA-MUSHIDA-MASAO) and (photomask adj blank) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA-HARVOSHI USHIDA USHIDA-HARVI YAMAGATA-HARVOSHI USHIDA USHIDA-HARVI YAMAGATA-HARVOSHI USHIDA USHIDA-HARVI YAMAGATA-HARVOSHI USHIDA USHIDA-HARVI YAMAGATA-HARVISHIDA USHIDA-HARSAO) and (photomask adj blank) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-HARVISHIDA USHIDA-HARSAO) and (photomask adj blank)) and (tensile adj stress))) (USPAT; US-PGFUB; EPO; JPO; DERWENT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   | İ      |                                              |           |                                       |
| blank) ) and (deposition adj rate)) not (((gb-2325473-\$.did. or ep-605814-\$.did.) (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber) ) (((430/5 430/322 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He") same (nitrogen "N2" "N. sub.2")) and (blank photomask adj blank photoblank)) (((photomask adj blank) and (substrate support) and (helium "He")) (((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) ush (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUYOSHI USHIDA USHIDA-MUSHIDA-MASAO) and (photomask adj blank))) and (tensile adj stress)))  - 150556 (tensile adj stress) (warp warping flatness)  - 150556 (tensile adj stress) (warp warping flatness)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |        | YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA    |           |                                       |
| (((gb-2325473-\$.did. or ep-605814-\$.did.) (((ghotomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber) ) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank) ) and (tensile adj stress))) (tensile adj stress))) (tensile adj stress)) (warp warping flatness)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |        | USHIDA-M USHIDA-MASAO ) and (photomask adj   |           |                                       |
| (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtering sputtered)) and (thin adj film) and (vacuum adj chamber) ) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-MUSHIDA-MASAO) and (photomask adj blank) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-MASAO) and (photomask adj blank) ) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAMAGATA-H YAM   |   |        | blank) )) and (deposition adj rate)) not     |           |                                       |
| (((photomask blank phototool) and (substrate support) and (helium "He") and (sputter sputtering sputtering) and (thin adj film) and (vacuum adj chamber) ) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-MUSHIDA-MASAO)) and (photomask adj blank) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-MASAO)) and (photomask adj blank) ) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-MASAO)) and (photomask adj blank))) and (tensile adj stress)))  - 150556 (tensile adj stress) (warp warping USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   | ,      | (((qb-2325473-\$.did. or ep-605814-\$.did. ) |           |                                       |
| support) and (helium "He") and (sputter sputtering sputtered)) and (thin adj film) and (vacuum adj chamber)) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED)) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He")) same (introgen "N2"  "N.sub.2")) and (blank photomask adj blank photoblank)) ((photomask adj blank) and (substrate support) and (helium "He")) (((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUYOSHI USHIDA USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUYOSHI USHIDA USHIDA-MASAO) and (photomask adj blank))) and (tensile adj stress)))  150556 (tensile adj stress) (warp warping (USPAT; US-PGPUB; EPO; JPO; DERWENT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   | 1      |                                              |           | *                                     |
| sputtering sputtered)) and (thin adj film) and (vacuum adj chamber) ) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank) photoblank) ) ((photomask adj blank) photoblank) ) ((photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank)) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank)) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank)) and (tensile adj stress) ))  - 150556 (tensile adj stress) (warp warping flatness)  150756 (USPAT; USPAT; USPAGUS, EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   | 1      |                                              |           |                                       |
| and (vacuum adj chamber) ) (((430/5 430/322 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank photoblank) ) ((photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA + HAUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA + ARAMGATA - HAYAMAGATA + HAYAMAGATA - HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank) )) and (tensile adj stress)))  - 150556 (tensile adj stress) (warp warping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   | !      |                                              |           |                                       |
| 430/320 428/\$ 427/\$).CCLS.) AND (PHOTOMASK MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank)) (((sputtering) same (helium "He") same (nitrogen "N2" "N.sub.2")) and (blank photomask adj blank photoblank)) ((photomask adj blank photoblank)) ((photomask adj blank) and (substrate support) and (helium "He")) (((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (tensile adj stress))))  150556 (tensile adj stress) (warp warping (US-PGPUB; EPO; JPO; DERWENT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |        |                                              |           |                                       |
| MASK) AND ((SUBSTRATE SUPPORT) NEAR TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2"  "N.sub.2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank) photoblank) ) ((photomask adj blank) (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank)) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank) and (substrate support) and (helium "He")) ((mitsui-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank) )) and (tensile adj stress)))  - 150556 (tensile adj stress) (warp warping flatness)  USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |        |                                              |           |                                       |
| TRANSPARENT) AND (HELIUM "HE"?) AND (SPUTTER SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2"  "N.sub.2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank photoblank) ) ((photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank) )) and (tensile adj stress)))  - 150556 (tensile adj stress) (warp warping flatness)  15066 (tensile adj stress) (warp warping US-PGPUB; EFO; JPO; DERWENT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   | 1      |                                              |           |                                       |
| SPUTTERING SPUTTERED) ) ((("He" Helium) same (chromium)) and (blank photomask adj blank photoblank) ) (((sputtering) same (helium "He") same (nitrogen "N2"  "N.sub.2")) and (blank photomask adj blank photoblank) ) ((photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank)) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank) )) and (tensile adj stress)))  - 150556 (tensile adj stress) (warp warping flatness)  USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |        |                                              |           | !                                     |
| same (chromium)) and (blank photomask adj blank photoblank) ) (((sputtering) same                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |        |                                              |           |                                       |
| blank photoblank) ) (((sputtering) same                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |        |                                              |           |                                       |
| (helium "He") same (nitrogen "N2"  "N.sub.2")) and (blank photomask adj blank photoblank)) ((photomask adj blank) and (substrate support) and (helium "He")) (((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO)) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-MUSHIDA-MASAO) and (photomask adj blank))) and (tensile adj stress))))  - 150556 (tensile adj stress) (warp warping flatness)  USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |        |                                              |           |                                       |
| "N.sub.2")) and (blank photomask adj blank photoblank)) ((photomask adj blank) and (substrate support) and (helium "He")) (((MITSUI-MASARU YAMAGATA-H YAMAGATA-H YAMAGATA-HARUYOSHI USHIDA USHIDA-MUSHIDA-MASAO) and (photomask adj blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank))) and (tensile adj stress)))  - 150556 (tensile adj stress) (warp warping flatness)  USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   | ·      |                                              |           |                                       |
| photoblank) ) ((photomask adj blank) and (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank)) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank) )) and (tensile adj stress))) (tensile adj stress) (warp warping flatness)  150556  USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   | ·      |                                              |           |                                       |
| (substrate support) and (helium "He") ) (((MITSUI-MASARU YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank)) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA-H YAMAGATA-HARUKI YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank) )) and (tensile adj stress))) (tensile adj stress) (warp warping flatness)  150556  USPAT; USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | İ |        |                                              |           |                                       |
| (((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |        | photoblank) ) ((photomask adj blank) and     |           |                                       |
| (((MITSUI-MASARU YAMAGATA-HARUYOSHI USHIDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | , |        | (substrate support) and (helium "He") )      |           |                                       |
| YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank)) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank) )) and (tensile adj stress))))  - 150556 (tensile adj stress) (warp warping flatness)  USPAT; USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |        |                                              |           |                                       |
| USHIDA-M USHIDA-MASAO ) and (photomask adj blank)) and (substrate support) and (helium "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank) )) and (tensile adj stress))))  - 150556 (tensile adj stress) (warp warping flatness)  USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |        |                                              |           |                                       |
| blank)) and (substrate support) and (helium "He")) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO) and (photomask adj blank))) and (tensile adj stress))))  - 150556 (tensile adj stress) (warp warping flatness)  USPAT; USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   | 1      |                                              |           |                                       |
| "He") ) ((MITSUI-MASARU YAMAGATA YAMAGATA-H YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank) )) and (tensile adj stress))))  - 150556 (tensile adj stress) (warp warping flatness)  USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |        |                                              |           |                                       |
| YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA USHIDA-M USHIDA-MASAO ) and (photomask adj blank) )) and (tensile adj stress)))  - 150556 (tensile adj stress) (warp warping flatness)  USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |        |                                              |           |                                       |
| USHIDA-M USHIDA-MASAO ) and (photomask adj<br>blank) )) and (tensile adj stress)))<br>- 150556 (tensile adj stress) (warp warping USPAT; US-PGPUB;<br>flatness) EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   | 1      | , , , ,                                      |           |                                       |
| blank) )) and (tensile adj stress)))  (tensile adj stress) (warp warping flatness)  USPAT; 2003/03/06 12:23 US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   | 1      |                                              |           |                                       |
| - 150556 (tensile adj stress ) (warp warping USPAT; 2003/03/06 12:23 flatness) US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   | 1      | blank) )) and (tensile adi stress)) ))       |           |                                       |
| flatness)  US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | _ | 150556 |                                              | HIGDAT.   | 2003/03/06 12:22                      |
| EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | - | 130336 |                                              |           | 2003/03/06 12:23                      |
| DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ] |        | riachess)                                    |           |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |        |                                              |           |                                       |
| -   6812 ((tensile adj stress ) (warp warping   USPAT;   2003/03/06 12:24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |        |                                              | ł         | 0000/00/05                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | - | 6812   |                                              | ,         | 2003/03/06 12:24                      |
| flatness)) and (sputtering) US-PGPUB;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |        | flatness)) and (sputtering)                  |           |                                       |
| EPO; JPO;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |        |                                              |           |                                       |
| DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |        |                                              | ı         |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | - | 457    |                                              |           | 2003/03/06 12:25                      |
| flatness)) and (sputtering)) and (blank US-PGPUB;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |        |                                              | US-PGPUB; |                                       |
| photomask mask) and (thin adj film) and EPO; JPO;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   | 1      |                                              |           |                                       |
| (substrate support) and (helium "He")) DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |        |                                              |           |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | _ | 432    |                                              |           | 2003/03/06 12:48                      |
| flatness)) and (sputtering)) and ((blank US-PGPUB;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   | 132    |                                              | •         | ===================================== |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ] |        |                                              |           |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   | ļ      |                                              |           |                                       |
| (substrate support) and (helium "He"))) and DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |        | (substrate support) and (nellum "He"))) and  | DEKWENT   |                                       |
| (metal (transition near metal) chromium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   | 1      |                                              |           |                                       |
| chrome "Cr")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |        | chrome "Cr")                                 | l         |                                       |

| • • |       |                                                                                 |                     |                  |
|-----|-------|---------------------------------------------------------------------------------|---------------------|------------------|
| -   | 5873  | 430/5.ccls.                                                                     | USPAT;              | 2003/03/06 12:48 |
|     |       |                                                                                 | US-PGPUB;           |                  |
|     |       |                                                                                 | EPO; JPO;           |                  |
|     |       |                                                                                 | DERWENT             | 0000/00/05 15 0  |
| -   | 16    | 430/5.ccls. and ((((tensile adj stress)                                         | USPAT;              | 2003/03/06 15:34 |
|     |       | (warp warping flatness)) and (sputtering))                                      | US-PGPUB;           |                  |
|     |       | and ((blank photomask mask) and (thin adj                                       | EPO; JPO;           |                  |
|     |       | film) and (substrate support) and (helium                                       | DERWENT             |                  |
|     |       | "He"))) and (metal (transition near metal)                                      |                     |                  |
|     | 4.1   | chromium chrome "Cr"))                                                          | USPAT:              | 2003/03/06 15:54 |
| _   | 41    | (dc.m/c. adj power) near source                                                 | US-PGPUB;           | 2003/03/06 15:54 |
| }   |       |                                                                                 | EPO; JPO;           |                  |
| İ   |       |                                                                                 | DERWENT             |                  |
|     | 19876 | power adj density                                                               | USPAT;              | 2003/03/06 15:55 |
| -   | 19876 | power adj density                                                               | US-PGPUB;           | 2003,03,00 13.33 |
|     |       |                                                                                 | EPO; JPO;           |                  |
|     | 1     |                                                                                 | DERWENT             |                  |
|     | 28    | (power adj density) same (sputter adj                                           | USPAT;              | 2003/03/06 16:40 |
| _   | 20    | target)                                                                         | US-PGPUB;           | 2003,03,00 10.10 |
|     |       | target/                                                                         | EPO; JPO;           |                  |
|     |       |                                                                                 | DERWENT             |                  |
| _   | 0     | (dc.m/c. adj bias adj potential) same                                           | USPAT;              | 2003/03/06 16:50 |
|     |       | (graphite near target) same ("W" watts watt)                                    | US-PGPUB;           | ,,               |
|     |       | ( <u></u>                                                                       | EPO; JPO;           |                  |
|     |       |                                                                                 | DERWENT             |                  |
| -   | 408   | (dc.u/c. adj power adj source) same ("W"                                        | USPAT;              | 2003/03/06 16:57 |
|     |       | watts watt)                                                                     | US-PGPUB;           |                  |
|     |       | ,                                                                               | EPO; JPO;           |                  |
|     |       |                                                                                 | DERWENT             |                  |
| _   | 15071 | MITSUI-MASARU YAMAGATA YAMAGATA-H                                               | USPAT;              | 2003/03/10 09:16 |
|     |       | YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA                                       | US-PGPUB;           |                  |
|     |       | USHIDA-M USHIDA-MASAO                                                           | EPO; JPO;           |                  |
|     |       |                                                                                 | DERWENT             |                  |
| -   | 1239  | ROSASCO ROSASCO-S ROSASCO-STEPHAN                                               | USPAT;              | 2003/03/10 08:59 |
|     |       | ROSASCO-STEPHEN ROSASCO-STEPHEN-D                                               | US-PGPUB;           |                  |
|     |       | ROSASCO-STEVE ROSASCO-STEVEN                                                    | EPO; JPO;           |                  |
|     |       |                                                                                 | DERWENT             |                  |
| -   | 18    | (MITSUI-MASARU YAMAGATA YAMAGATA-H                                              | USPAT;              | 2003/03/10 08:59 |
|     |       | YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA                                       | US-PGPUB;           |                  |
|     |       | USHIDA-M USHIDA-MASAO ) and (ROSASCO                                            | EPO; JPO;           |                  |
|     |       | ROSASCO-S ROSASCO-STEPHEN                                                       | DERWENT             |                  |
|     |       | ROSASCO-STEPHEN-D ROSASCO-STEVE                                                 |                     |                  |
|     | 200   | ROSASCO-STEVEN)                                                                 | HCDAT.              | 2003/03/10 09:17 |
| -   | 390   | (MITSUI-MASARU YAMAGATA YAMAGATA-H<br>YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA | USPAT;<br>US-PGPUB; | 2003/03/10 09:1/ |
|     |       | YAMAGATA-HARUKI YAMAGATA-HARUTOSHI USHIDA<br>  USHIDA-M USHIDA-MASAO            | EPO; JPO;           |                  |
|     |       | opurpy-in opurpy-involo ) and (nerrall "ve")                                    | DERWENT             |                  |
|     | 591   | (MITSUI-MASARU YAMAGATA YAMAGATA-H                                              | USPAT;              | 2003/03/10 09:17 |
|     |       | YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA                                       | US-PGPUB;           | ,,               |
|     |       | USHIDA-M USHIDA-MASAO ) and (helium "He"                                        | EPO; JPO;           |                  |
|     |       | (inert adj gas))                                                                | DERWENT             |                  |
| -   | 191   | ((MITSUI-MASARU YAMAGATA YAMAGATA-H                                             | USPAT;              | 2003/03/10 09:18 |
|     |       | YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA                                       | US-PGPUB;           |                  |
|     |       | USHIDA-M USHIDA-MASAO ) and (helium "He") )                                     | EPO; JPO;           |                  |
|     |       | and (metal )                                                                    | DERWENT             |                  |
| -   | 66    |                                                                                 | USPAT;              | 2003/03/10 09:18 |
|     |       | YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA                                       | US-PGPUB;           |                  |
|     |       | USHIDA-M USHIDA-MASAO ) and (helium "He") )                                     | EPO; JPO;           |                  |
|     |       | and (metal )) and target                                                        | DERWENT             |                  |
| -   | 4     | ((((MITSUI-MASARU YAMAGATA YAMAGATA-H                                           | USPAT;              | 2003/03/10 10:22 |
|     |       | YAMAGATA-HARUKI YAMAGATA-HARUYOSHI USHIDA                                       | US-PGPUB;           |                  |
|     |       | USHIDA-M USHIDA-MASAO ) and (helium "He") )                                     | EPO; JPO;           |                  |
|     |       | and (metal )) and target) and (vacuum near .                                    | DERWENT             |                  |
|     |       | chamber)                                                                        |                     | 2002/02/12 12 15 |
| -   | 16095 | sccm                                                                            | USPAT;              | 2003/03/10 10:25 |
|     |       |                                                                                 | US-PGPUB;           |                  |
|     |       |                                                                                 | EPO; JPO;           |                  |
|     |       |                                                                                 | DERWENT             | <u> </u>         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | , - |       |                                            |           |                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|--------------------------------------------|-----------|--------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -   | 7     | (direct adj current adj sputter) same      | USPAT;    | 2003/03/10 10:27   |
| DERWENT   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;   USPAT;        |     |       |                                            | US-PGPUB; |                    |
| Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition   Composition        |     |       |                                            | EPO; JPO; |                    |
| (vacuum inline in-line chamber power)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |       |                                            | DERWENT   |                    |
| (vacuum inline in-line chamber power)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | _   | 20    | (direct adj current adj sputter) and       | USPAT;    | 2003/03/10 11:55   |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |       |                                            | US-PGPUB; |                    |
| DERWENT   USPAT;   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;   EPO; JPO; DERWENT   US-PGPUB;     |     |       | , , , , , , , , , , , , , , , , , , , ,    | 1         |                    |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |       |                                            | 1 '       |                    |
| (vacuum inline in-line chamber power)) not ((direct adj current adj sputter) same (vacuum inline in-line chamber power)) ((tensile adj stress) (flatness near degree)) same (helium He (inert))  - 19876 (power adj density) same (power)  - 12 ((power adj density) same (power) USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO;    | _   | 13    | ((direct adj current adj sputter) and      |           | 2003/03/10 11:55   |
| ((direct adj current adj sputter) same (vacuum inline in-line chamber power)) ((tensile adj stress) (flatness near degree)) same (helium He (inert))  - 19876 (power adj density) same (power)  - 12 ((power adj density) same (power)  - 12 ((power adj density) same (power)) same (graphite adj target)  - 2 (cm2) same (graphite adj target)  - 75 (cm2 cm inch in2 centimeter meter) same (graphite adj target)  - 2 (jp-11012730-\$.did.  - 1298 (silicon adj wafer) same transparent  - 3 spf-530H  - 325 (sputtering adj power) same (rate)  ((idirect adj current adj sputter) same (power))  (DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGP  |     |       | (vacuum inline in-line chamber power)) not | -         |                    |
| Cadacium inline in-line chamber power )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |       |                                            |           |                    |
| 249                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |       |                                            |           |                    |
| degree)   same (helium He (inert))   US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EPO; JPO; DERWENT USPAT; US-PGFUB; EP     | _   | 249   |                                            | 1         | 2003/03/10 12:46   |
| Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -   | 249   |                                            |           | 2003, 03, 10 12:10 |
| - 19876 (power adj density) same (power)  - 12 ((power adj density) same (power) ) same (graphite adj target)  - 12 (cm2) same (graphite adj target)  - 2 (cm2) same (graphite adj target)  - 75 (cm2 cm inch in2 centimeter meter) same (graphite adj target)  - 2 jp-11012730-\$.did.  - 2 jp-11012730-\$.did.  - 1298 (silicon adj wafer) same transparent  - 3 spf-530H  - 325 (sputtering adj power) same (rate)    DERMENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; |     |       | degree// same (nerram ne (inere/)          | •         |                    |
| - 19876 (power adj density) same (power)  - 12 ((power adj density) same (power) ) same                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |       |                                            |           |                    |
| US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO;     | l _ | 10076 | (nower add density) same (nower)           |           | 2003/03/10 12-47   |
| - 12 ((power adj density) same (power) ) same                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | _   | 13070 | (power ad) density, same (power)           |           | 2003/03/10 12:47   |
| - 12 ((power adj density) same (power) ) same                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |       |                                            |           |                    |
| - 12 ((power adj density) same (power) ) same (graphite adj target)  - 2 (cm2) same (graphite adj target)  - 2 (cm2) same (graphite adj target)  - 35 (cm2 cm inch in2 centimeter meter) same (graphite adj target)  - 4 2 jp-11012730-\$.did.  - 5 (silicon adj wafer) same transparent  - 5 (sputtering adj power) same (rate)  - 6 325 (sputtering adj power) same (rate)  - 7 1298 (silicon adj density) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power) same (power)  |     |       |                                            |           |                    |
| Graphite adj target   US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT     |     | 12    | (/nower add density) same (newer) ) same   | 1         | 2003/03/10 15:47   |
| EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; US-PGPUB; US-PGPUB; US-PGPUB; US-PGPUB; US-PGPUB; US-PGPUB; US-PGPUB; US-PGPUB; US-PGPUB; US-PGPUB; US-PGPUB; US-PGPUB; US-PGPUB; US-PGPUB; US-PGPUB; US-PGPUB; US-PGPUB; US-PGPUB; US-PGPUB;     | -   | 12    |                                            | 1         | 2003/03/10 13:47   |
| - 2 (cm2) same (graphite adj target) USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT;    |     |       | (graphice ad) carget/                      | •         |                    |
| - 2 (cm2) same (graphite adj target)  - (cm2 cm inch in2 centimeter meter) same (graphite adj target)  - (cm2 cm inch in2 centimeter meter) same (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (   |     |       |                                            |           | İ                  |
| US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     | ,     | (am2) same (graphite adi target)           |           | 2003/03/10 13:04   |
| - (cm2 cm inch in2 centimeter meter) same (graphite adj target)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | _   |       | (Ciliz) Saille (graphite ad) target)       | '         | 2003/03/10 13.04   |
| - 75 (cm2 cm inch in2 centimeter meter) same (graphite adj target)  - 2 jp-11012730-\$.did.  - 1298 (silicon adj wafer) same transparent  - 3 spf-530H  - 325 (sputtering adj power) same (rate)    DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; J  |     |       |                                            |           |                    |
| - (cm2 cm inch in2 centimeter meter) same (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (graphite adj target)  - (pp-11012730-\$.did.  - (silicon adj wafer) same transparent  - (silicon adj wafer) same transparent  - (silicon adj wafer) same transparent  - (sputtering adj power) same (rate)  - (sputtering adj power) same (rate)  - (cm2 cm inch in2 centimeter meter) same  US-PGPUB;  EPO; JPO;  DERWENT  US-PGPUB;  EPO; JPO;  DERWENT  US-PGPUB;  EPO; JPO;  DERWENT  US-PGPUB;  EPO; JPO;  DERWENT  US-PGPUB;  EPO; JPO;  DERWENT  US-PGPUB;  EPO; JPO;  DERWENT  US-PGPUB;  EPO; JPO;  DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |       |                                            |           |                    |
| (graphite adj target)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | _   | 75    | (cm2 cm inch in2 centimeter meter) same    |           | 2003/03/10 13:05   |
| EPO; JPO; DERWENT USPAT; 2003/03/10 15:08  1298 (silicon adj wafer) same transparent USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | _   | /3    |                                            |           | 2003/03/10 13:03   |
| - 2 jp-11012730-\$.did.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |       | (graphice adj cargee)                      |           |                    |
| - 2 jp-11012730-\$.did.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |       |                                            | 1         |                    |
| US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | _   | 2     | in-11012730-5 did                          |           | 2003/03/10 15:08   |
| - 1298 (silicon adj wafer) same transparent USPAT; US-PGPUB; EPO; JPO; DERWENT - 3 spf-530H USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT - 325 (sputtering adj power) same (rate) USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT - DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | _   | ~     | )                                          |           | 2003,03,10 13:00   |
| - 1298 (silicon adj wafer) same transparent USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |       |                                            | 1         |                    |
| - 1298 (silicon adj wafer) same transparent USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |       |                                            |           |                    |
| US-PGPUB;<br>EPO; JPO;<br>DERWENT<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | _   | 1298  | (silicon adi wafer) same transparent       |           | 2003/03/10 15:12   |
| EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |       | (222231 ad) hazz, zamo ozamopazamo         |           |                    |
| - 3 spf-530H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |       |                                            |           |                    |
| - 3 spf-530H USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |                                            |           |                    |
| US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _   | 1 3   | spf-530H                                   |           | 2003/03/10 16:16   |
| - 325 (sputtering adj power) same (rate) EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |       |                                            | -         |                    |
| - 325 (sputtering adj power) same (rate)  DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |       |                                            |           |                    |
| - 325 (sputtering adj power) same (rate) USPAT; US-PGPUB; EPO; JPO; DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |       |                                            |           |                    |
| US-PGPUB;<br>EPO; JPO;<br>DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _   | 325   | (sputtering adi power) same (rate)         |           | 2003/03/10 16:19   |
| EPO; JPO;<br>DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |       | (-F                                        | •         |                    |
| DERWENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ]   |       |                                            |           | 1                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |       |                                            | 1         |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | _   | 249   | (sputtering adj power) same (rate)         | 1         | 2003/03/11 08:20   |